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## Dow Corning Products for the Aerospace Industry

**DOW CORNING**

[www.dowcorning.com/aviation](http://www.dowcorning.com/aviation)

Product	Features	Typical Applications
<i>Sylgard</i> <sup>®</sup> 186 Encapsulating Resin	Translucent; reversion resistant; -55 to 200°C (-68 to 410°F); special feature - good tear strength	Connector potting; cable harness breakouts; molded HV terminals; optical fiber cladding
<i>Dow Corning</i> <sup>®</sup> 340 Heat Sink Compound	Greaselike; filled with heat-conductive metal oxides; high thermal conductivity; low bleed; does not dry out, harden or melt; MIL-C-47113	Base and co-mounting studs of transistors and diodes; coupling entire heat-generating assembly to chassis; rectifiers; packaged controls
<i>Dow Corning</i> <sup>®</sup> 510 Fluid	Low-temperature performance; excellent dielectric properties over a wide range of frequencies and temperatures; wide service temperature range from -51 to 204°C (-60 to 400°F); water repellent	Lubrication of rubber, leather diaphragms, plastic bearings used at low temperatures; fluid drives; base oil for greases; damping fluid for instruments
<i>Dow Corning</i> <sup>®</sup> 730 Solvent Resistant Sealant	Excellent adhesion to most substrates; retains properties under exposure to fuels, oils and solvents	Bonding, sealing, caulking where resistance to fuels, oils and solvents is required
<i>Dow Corning</i> <sup>®</sup> 732 Multi-Purpose Sealant	Aluminum, bronze, black, white or clear; applied as received, requires no mixing; -55 to 200°C (-68 to 392°F); acetic acid cure; meets MIL-A-46016A requirements and certain FDA, NSF and UL standards - see data sheet	Connectors; dustproofing; thermistor mounting; repairing encapsulants; insulating and sealing leads, splices, connections; bonding equipment covers
<i>Dow Corning</i> <sup>®</sup> 734 Flowable Sealant	White or clear; pourable; self-leveling; applied as received, requires no mixing; acetic acid cure; meets certain FDA and NSF standards - see data sheet	Coating for mechanical protection; making formed-in-place gaskets

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Product	Features	Typical Applications
<i>Sylgard</i> ® 186 Encapsulating Resin	Translucent; reversion resistant; -55 to 200°C (-68 to 410°F); special feature - good tear strength	Connector potting; cable harness breakouts; molded HV terminals; optical fiber cladding
<i>Dow Corning</i> ® 340 Heat Sink Compound	Greaselike; filled with heat-conductive metal oxides; high thermal conductivity; low bleed; does not dry out, harden or melt; MIL-C-47113	Base and co-mounting studs of transistors and diodes; coupling entire heat-generating assembly to chassis; rectifiers; packaged controls
<i>Dow Corning</i> ® 510 Fluid	Low-temperature performance; excellent dielectric properties over a wide range of frequencies and temperatures; wide service temperature range from -51 to 204°C (-60 to 400°F); water repellent	Lubrication of rubber, leather diaphragms, plastic bearings used at low temperatures; fluid drives; base oil for greases; damping fluid for instruments
<i>Dow Corning</i> ® 730 Solvent Resistant Sealant	Excellent adhesion to most substrates; retains properties under exposure to fuels, oils and solvents	Bonding, sealing, caulking where resistance to fuels, oils and solvents is required
<i>Dow Corning</i> ® 732 Multi-Purpose Sealant	Aluminum, bronze, black, white or clear; applied as received, requires no mixing; -55 to 200°C (-68 to 392°F); acetic acid cure; meets MIL-A- 46016A requirements and certain FDA, NSF and UL standards - see data sheet	Connectors; dustproofing; thermistor mounting; repairing encapsulants; insulating and sealing leads, splices, connections; bonding equipment covers
<i>Dow Corning</i> ® 734 Flowable Sealant	White or clear; pourable; self-leveling; applied as received, requires no mixing; acetic acid cure; meets certain FDA and NSF standards - see data sheet	Coating for mechanical protection; making formed-in-place gaskets

<i>Dow Corning</i> <sup>®</sup> 736 Heat Resistant Sealant	Performs at temperatures ranging from -65 to 260°C (-85 to 500°F) for continuous operation and to 316°C (600°F) for intermittent exposure	Sealing and encapsulating heating elements in appliances; aerospace gasketing; moving oven belts, industrial ovens, bag filters on smoke stacks and most high-temperature sealing applications
<i>Dow Corning</i> <sup>®</sup> 737 Neutral Cure Sealant	Primerless adhesion to most materials; rapid cure; noncorrosive to most materials	Bonding and sealing in OEM and assembly operations; making formed-in- place gaskets; bonding, sealing, encapsulating electronic products
<i>Dow Corning</i> <sup>®</sup> 738 Electrical Sealant	White, one-part material; noncorrosive cure mechanism; good tear strength; wide service temperature range; good dielectric properties; resistant to harsh environments; meets MIL-A-46146A, Type I requirements and certain FDA and UL standards - see data sheet	Corrosion-sensitive components; sealing around wires and electrical connections, control boxes, conduit ends, printed circuit boards, motors, generators, terminals, leads and splices
<i>Dow Corning</i> <sup>®</sup> 739 Plastic Adhesive	Black or white, one-part, neutral-cure RTV; excellent unprimed adhesion to most metals and many plastics; withstands exposure to harsh environments and temperatures to 177°C (350°F); no acetic acid odor	Sealing and bonding large and small appliances; refrigerator and freezer liner sealing; sealing small appliance housings; protecting small motor lead wires; mounting electric light lenses; sealing and mounting connectors
<i>Dow Corning</i> <sup>®</sup> 3110 RTV Silicone Rubber	White; low viscosity; choice of two catalysts to match cure time to process needs	All electronic and electrical potting, encapsulating, embedding, coating; equipment exposed to extreme contamination; thick-section potting; damping vibration in appliances, machinery; filling splices, insulators, bushings; insulating motor leads, cable junctions; making potheads;
<i>Dow Corning</i> <sup>®</sup> 3112 RTV Silicone Rubber	White; medium viscosity; cures to high-durometer, high-strength rubber	<i>Dow Corning</i> <sup>®</sup> 3110 RTV Silicone Rubber: reproducing candles, art objects, simple shapes, highest detail;
<i>Dow Corning</i> <sup>®</sup> 3120 RTV Silicone Rubber	Red; medium viscosity; cures to high-durometer, high-strength rubber	<i>Dow Corning</i> <sup>®</sup> 3112 RTV Silicone Rubber: vinyl embossing; <i>Dow Corning</i> <sup>®</sup> 3120 RTV Silicone Rubber: molding low- melting-point metals
<i>Dow Corning</i> <sup>®</sup> 3140 RTV Coating	Clear; noncorrosive cure; self-leveling; solventless RTV coating; MIL-I- 46058C; MIL-A-46146A, Type II	Protecting corrosion-sensitive components, printed circuit boards; encapsulating small circuits and connectors
<i>Dow Corning</i> <sup>®</sup> 3145 RTV Adhesive Sealant	Clear, one-part material; high strength; noncorrosive; -55 to 200°C (-68 to 392°F); MIL-A-46146BII, Type III Gray, same functions as above	Adhering corrosion-sensitive components, resistors, transistors; noncorrosive sealing and bonding of enclosures, wires, terminals, splicing

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## Dow Corning Products for the Electronic Products Industry

**DOW CORNING**

[www.dowcorning.com/electronics](http://www.dowcorning.com/electronics)

### Adhering, Bonding, Sealing Materials

Product	Features	Typical Applications
<b>Sylgard® 577</b> Primerless Silicone Adhesive	Gray, flowable; excellent unprimed adhesion; heat cure; flexible and stable from -55 to 200°C (-68 to 392°F); provides stability and relief from mechanical shock and thermal cycling stress; MIL-PRF-23586F (Grade B2)	Adhering hybrid integrated circuits, ceramic ICs to aluminum base plates, glass structural components together or to metal frames, components in power equipment, permanent magnets to frame structures, multiple-gasket components, ribbon-type conductor/insulator components, metal structural components
<b>Dow Corning® 838</b> Silicone Adhesive/ Sealant	Excellent extended shelf life; white; one-part; neutral, rapid cure; RTV; unprimed adhesion to most materials; nonslump; UL 94 HB	Sealing around wires and electrical connections, control boxes; ruggedizing controls, relays, switches, printed circuit boards, motors, generators, terminals, leads and splices
<b>Dow Corning® 839</b> Silicone Adhesive/ Sealant	Excellent extended shelf life; translucent blue; one-part; neutral, rapid cure; RTV; unprimed adhesion to most materials; nonslump	Sealing around wires and electrical connections, control boxes; ruggedizing controls, relays, switches, printed circuit boards, motors, generators, terminals, leads and splices
<b>Dow Corning® 3140</b> RTV Coating	Clear; noncorrosive cure; self-leveling; solventless RTV coating; MIL-I- 46058C, Amend. 7; MIL-A-46146B	Protecting corrosion-sensitive components, printed circuit boards; encapsulating small circuits and connectors

<b>Dow Corning®</b> <b>3145 RTV</b> <b>Adhesive/ Sealant</b>	Clear, one-part material; high strength; noncorrosive; -55 to 200°C (-68 to 392°F); MIL-A-46146B, Amend. 3	Adhering corrosion-sensitive components, resistors, transistors; noncorrosive sealing and bonding of enclosures, wires, terminals, splicing where high strength, good stress relieving and/or MIL specifications are required; aircraft, shipboard, missile, jet engine, armored vehicle uses
	Gray, same functions as above plus excellent thermal stability -55 to 260°C (-68 to 500°F); MIL-A-46146 Rev. B, Amend. 3	
<b>Dow Corning®</b> <b>3165 Fast Tack</b> <b>RTV Adhesive/ Sealant</b>	Very fast tack; one-part RTV; flexible elastomer; no corrosive byproducts; high green strength; UL 94 V-O Flammability Classification pending	Sealing and bonding in electrical/electronic applications where fast assembly is required
<b>Dow Corning®</b> 1-4173 and 1-4174 <b>Thermally Conduc- tive Elastomers</b>	One-part silicone elastomers; supplied as thixotropic solventless liquid; excellent thermal conductivity; self-priming adhesive; electrically insulating; heat curable	Adhering, potting and encapsulating
<b>Dow Corning®</b> <b>Q3-6093 Silicone</b> <b>Adhesive/Sealant</b>	Primerless; nonslump; black; excellent adhesion to wide range of substrates; two-part system with fast, variable cure rate based on curing agent concentration, deep-section cure	General adhering and bonding where excellent unprimed adhesion and deep-section cure are desired; printed circuit board, component assembly adhesive
<b>Dow Corning®</b> 3-6265 <b>Primerless Thixotropic Adhesive</b>	Primerless; nonslump; one-part; heat curable; improved adhesion; excellent dielectric properties; provides stability and relief from mechanical shock and thermal cycling stress tests; maintains elastomeric flexibility and provides functional stability from -55 to 200°C (-67 to 392°F); UV detectability	Adhesive bond for a wide range of metal, ceramic and glass substrates
<b>Sylgard®</b> 3-6605 <b>Thermally Conductive Elastomer</b>	Gray; two-part; high viscosity; unprimed adhesion; heat curable; thermally stable at high temperatures; operating range of -55 to 200°C (-67 to 392°F); long pot life; excellent thermal conductivity	Thermally conductive potting material for transformers, power supplies, general-purpose modules, coils, relays and other electronic devices requiring improved thermal dissipation; adhering or bonding hybrid substrates to base plates; excellent replacement for thermal grease used in power devices, transformers, general-purpose modules, coils, relays and other thermal coupling applications; ideal when flexible, thermally conductive adhesive is required